



**St. Francis**  
College for Women  
Begumpet, Hyderabad-500016  
(Autonomous & Affiliated to Osmania University)  
NAAC Re-accredited with 'A' Grade 4<sup>th</sup> Cycle



जैवप्रौद्योगिकी विभाग  
DEPARTMENT OF  
**BIOTECHNOLOGY**

**ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD**

**ACADEMIC YEAR 2023 - 2024**

**DEPARTMENT OF ELECTRONICS**

**Report on Workshop on “Robotics”**

**Date: 18<sup>th</sup> & 19<sup>th</sup> January, 2024.**

**Time: 9.00 a.m. to 4.00 p.m.**

**Brochure:**

The brochure is a colorful poster for a robotics workshop. It features the St. Francis College for Women logo in the top left corner. The main title is 'DBT STAR COLLEGE (Under Strengthening Component) Department of Electronics'. Below this, it says 'In association with Pantech E Learning organizes 2-day hands on Training on "Robotics"'. The Pantech e Learning logo is prominently displayed in the center, with the tagline 'DIGITAL LEARNING SIMPLIFIED' and 'for students of B.sc IE, IIE and IIIE'. The bottom of the brochure includes the date 'Date : 18 & 19, January 2024', time 'Time : 09.00 A.M to 4.00 P.M', and venue 'Venue : Electronics Lab'. The background is a gradient of blue and green, with illustrations of robots and people. Logos for the Department of Biotechnology and Sustainable Development Goals are also present in the top right corner.

The Department of Electronics organized a 2-day hands on training workshop on the topic “Robotics” under DBT STAR COLLEGE, Strengthening Component, for the B.Sc. students of I/ II / III year (M.E.CS) on the 18<sup>th</sup> and 19<sup>th</sup> of January 2024. Around 40 students and 2 faculty members participated. The hands-on training was conducted in association with Pantech E learning Pvt Ltd.



### Objectives:

- To provide an introduction to Robotics and Automation including robot classification, design and selection, analysis and applications in industry.
- To create intelligent machines that can assist humans in a variety of ways.
- To expose students to the history and current developments in the field of robotics;
- To prepare the students for the future job market.

### Outcomes: The students learned about

- Knowledge of computer operating systems, hardware and software, Arduino IDE and embedded C programming.
- Designing a serial robot, line following robot, obstacle sensing robot and more.
- Applying logic for selection of robotic sub systems.
- Analyzing basics of principles of robot system integration.

### Pictures:





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